Update on IdM for Research: What's new since SC15?

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CENTER FOR APPLIED CYBERSECURITY RESEARCH

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This talk⋯

- Covering both Identity Management (IdM) and Identity & Access Management (IAM)

- Update since my talk at SC15:
  https://dx.doi.org/10.6084/m9.figshare.3118135

InCommon News

- Welch still advisor for research to Steering Committee
  - Would like to see Research SP as full member.
- InCommon joined EduGain global inter-federation
  - https://www.incommon.org/edugain/
- NSF joining R&S still in progress.

IAMOnline Session, August 10th 2016: Paving the Way for Research Collaboration

- Worth watching, presentations from:
  - Chris Whalen, NIH
  - Kathleen Fitzpatrick, Modern Language Association
  - Scott Koranda, LIGO
- https://incommon.org/iamonline/
  - Slides: https://incommon.org/docs/iamonline/20160810_IAMOnline.pdf
  - Video: http://internet2.adobeconnect.com/p3rt6r6gj5z/

Free the Attributes!

- Free the Attributes! Attribute Release, Scalable Consent, and User Convenience
  - Also archived at https://incommon.org/iamonline/
    - April 13, 2016

Security Incident Response Trust Framework for Federated Identity (Sirtfi)

- https://refeds.org/sirtfi

- Goal: Enable the coordination of incident response across federated organizations.

- Proof of concept starting with NCSA, the University of Chicago, and LIGO

Bad News: Lack of Attribute Release to Science SPs is (Still) a Big Problem

- Over 800 participants in InCommon, >900 by end of 2016.

- Global R&S category: 55 InCommon SPs.

- A total of 122 InCommon Identity Providers release attributes to R&S services; 39 IdPs release attributes to all global R&S SPs while another 83 IdPs release the attribute bundle to R&S SPs registered by InCommon only.

- Result: Common for research SPs to report <50% (as low at 10%!) of researchers able to use Fed IdM.

Good News:
InCommon Steering Committee Resolution

"InCommon Identity Provider Operators will move to releasing an identified set of attributes to all InCommon Service Provider Operators."

April 6, 2016

https://www.incommon.org/docs/InCommonReport2016.pdf

NSF Cybersecurity Center of Excellence IAM Work

- http://trustedci.org/iam/

- CTSC's Guide to Developing Cybersecurity Programs for NSF Science and Engineering Projects (which contains an IAM section)

- Identity Management Best Practices: A CTSC Blog Series

  - Ongoing blog posts ("iam" label)

- CTSC Federated Identity Discussion List

- CTSC Training: Streamlining Collaboration with InCommon and Identity Federations

- CTSC Engagements: IAM-focused engagements to-date include DataONE, IBEIS, LIGO, and SciGaP

- Partner to EU Authentication and Authorisation for Research and Collaboration (AARC) project - https://aarc-project.eu/

Update on 2015 Opinions

- IdM/IAM ongoing challenge, but maturing.
- InCommon pushing on R&S, slow going
  - Many sites think it solely a B2B solution
- 2FA becoming common w/soft tokens
  - May become default and assumed?
- Social identities via OAuth not going away
  - Low assurance solution for science?
- Ecosystem more likely than single solution

Thank you

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